L	Hits	Search Text	DB	Time stamp
Number				
1	90	@ad<19990831 and ("XOR" "exlusive-or"	USPAT;	2004/02/26
		"exclusive or") and (key adj2	US-PGPUB;	14:02
		(transform\$7 expan\$5 exten\$5)) and	EPO; JPO;	
2	505	constant (380/44).CCLS.	IBM_TDB USPAT;	2004/02/26
2	303	(380/44).CCL3.	US-PGPUB;	14:02
			EPO; JPO;	14.02
			IBM TDB	
3	279	(380/29).CCLS.	USPAT;	2004/02/26
_			US-PGPUB;	14:02
			EPO; JPO;	
)	IBM_TDB	
5	25	((380/44).CCLS.) and ((380/29).CCLS.)	USPAT;	2004/02/26
			US-PGPUB;	14:02
			EPO; JPO;	
_			IBM_TDB	0004/00/06
6	119	@ad<19990831 and ("XOR" "exlusive-or"	USPAT;	2004/02/26
		"exclusive or") and (key adj2	US-PGPUB;	14:03
		(transform\$7 expan\$5 exten\$5)) and	EPO; JPO; IBM TDB	
8	1	(shift\$3 rotat\$3) (("5442705").PN.) and (shift\$3 rotat\$3)	USPAT;	2004/02/26
В	1	(("5442/05").PN.) and (Shiic\$5 locat\$5)	US-PGPUB;	14:20
}			EPO; JPO;	11.20
			IBM TDB	
9	71	@ad<19990831 and ("XOR" "exlusive-or"	USPAT;	2004/02/26
	'-	"exclusive or") and (key adj2	US-PGPUB;	14:04
		(transform\$7 expan\$5 exten\$5)) and	EPO; JPO;	
		(shift\$3 rotat\$3) and (substitut\$3	IBM TDB	
•		"s-box" "s-boxes")	_	
10	0	(shift\$3 rotat\$3) near (relatively adj	USPAT;	2004/02/26
		prime)	US-PGPUB;	14:20
			EPO; JPO;	
			IBM_TDB	
11	0	(shift\$3 rotat\$3) and (relatively adj	USPAT;	2004/02/26
		prime)	US-PGPUB;	14:20
			EPO; JPO;	
10	0	rolativoly adi primo	IBM_TDB USPAT;	2004/02/26
12	l "	relatively adj prime	US-PGPUB;	14:20
			EPO; JPO;	-1.20
			IBM TDB	
13	316	relative\$3 adj2 prime	USPAT;	2004/02/26
	""		US-PGPUB;	14:20
			EPO; JPO;	
			IBM_TDB	
14	222	relative\$3 adj prime	USPAT;	2004/02/26
			US-PGPUB;	14:21
	1		EPO; JPO;	
		l	IBM_TDB	0004/00/05
15	222	relative\$2 adj prime	USPAT;	2004/02/26
			US-PGPUB;	14:21
			EPO; JPO; IBM TDB	
16	0	relatively adj prime	USPAT;	2004/02/26
1.0	l "	Teracivety and brime	US-PGPUB;	14:21
			EPO; JPO;	
			IBM TDB	
17	l 0	"relatively prime"	USPAT;	2004/02/26
- •	I		US-PGPUB;	15:04
			EPO; JPO;	
)	IBM TDB	
18	6	"relatively prime"	USPAT;	2004/02/26
	(US-PGPUB;	15:19
			EPO; JPO;	
			DERWENT;	
	L		IBM_TDB	1

. • •				
21	84	"des" and (key adj expansion)	USPAT;	2004/02/26
	/		US-PGPUB;	15:20
		\sim	EPO; JPO;	
	/	 	DERWENT;	
			IBM_TDB	
22	// 45	/des" same (key adj expansion)	USPAT;	2004/02/26
	1 <i>1</i> 7		US-PGPUB;	15:20
			EPO; JPO;	
		<u></u>	DERWENT;	
)	IBM_TDB	Į
19	/ 7	/des" near (random adj3 generator)	USPAT;	2004/02/26
	1 1 1	/	US-PGPUB;	15:20
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
7	1	("5442705").PN.	USPAT;	2004/02/26
			US-PGPUB;	15:32
			EPO; JPO;	
		() (() (A) (A) (B) (A) (B) (B) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	IBM_TDB	2004/02/25
24	4111	(substitut\$3 "s-box" "s-boxes") near (USPAT;	2004/02/26
		"same" common)	US-PGPUB;	15:53
			EPO; JPO;	
28	2947	//substitutes lis boul lis boundly noon /	IBM_TDB USPAT;	2004/02/26
28	2947	((substitut\$3 "s-box" "s-boxes") near ("same" common)) and @ad<19990831	US-PGPUB;	15:50
		same common) and ead(19990031	EPO; JPO;	13.30
			IBM TDB	
29	203	(((substitut\$3 "s-box" "s-boxes") near (USPAT;	2004/02/26
	203	"same" common)) and @ad<19990831) and	US-PGPUB;	15:53
		(sharing shared share)	EPO; JPO;	
		<u></u>	IBM TDB	
32	9.6	/(((substitut\$3 "s-box" "s-boxes") near (USPĀT;	2004/02/26
	7	"same" common)) and @ad<19990831) and	US-PGPUB;	15:52
		(sharing shared share)) and (380/\$.ccls.)	EPO; JPO;	
		N	IBM_TDB	i l
33	23	Mad<19990831 and ((substitut\$3 "s-box"	USPAT;	2004/02/26
		"s-boxes") near (sharing shared share	US-PGPUB;	15:55
		"same" common)) and (random near	EPO; JPO;	
1	_	generat\$3)	IBM_TDB	
34	1	(OOMORI and MOTOJI).in.	USPAT;	2004/02/26
			US-PGPUB; EPO; JPO;	15:56
			IBM TDB	
35	52	(OhMORI and MOTOJI).in.	USPAT;	2004/02/26
1 33		Totaloni and notobly.in.	US-PGPUB;	15:56
			EPO; JPO;	' •
-			IBM TDB	
36	25	OhMORI and MOTOJI).in. and (toshiba	USPAT;	2004/02/26
		matsushita).as.	US-PGPUB;	16:00
			EPO; JPO;	
1			IBM_TDB	
37	13	(/OhMORI and MOTOJI).in. and (toshiba	USPAT;	2004/02/26
	/ .	matsushita).as.) and @ad<20000831	US-PGPUB;	16:09
			EPO; JPO;	
			IBM_TDB	2004/02/26
38	1	"EP 874496 A2"	USPAT;	2004/02/26
			US-PGPUB;	16:10
			EPO; JPO;	
L	I		IBM TDB	l



Advanced Search Preferences Language Tools Search Tips

Google Search

Web Images Groups Directory News

Searched the web for "key expansion" rotate DES. Results 1 - 10 of about 104. Search took

rppFt_Metwork Security: Secret Key Cryptography

File Format: PDF/Adobe Acrobat - View as HTML

... bit **rotate** left otherwise: two-bit **rotate** left permutation ... ETH Zurich, 1991 similar to DES: 64 bit ... 16 IDEA Key Expansion 128-bit key 52 16-bit keys ... www.cs.columbia.edu/~hgs/teaching/ security/slides/secret1.pdf - Similar pages

[PDF] Network Security: Secret Key Cryptography Secret Key Cryptography

File Format: PDF/Adobe Acrobat - View as HTML

... bit rotate left otherwise: two-bit rotate left permutation ... ETH Zurich, 1991 similar to DES: 64 bit ... for 3/4 1/2 Slide 15 IDEA Key Expansion 128-bit ... www.cs.columbia.edu/~hgs/teaching/ security/slides/secret2.pdf - Similar pages [More results from www.cs.columbia.edu]

[PDF] William Stallings, Cryptography and Network Security 3/e

File Format: PDF/Adobe Acrobat - View as HTML

... keys • Stronger & faster than Triple-DES • Active life ... AES Key Expansion • Takes 128-bit (16-byte) key and ... every 4 th has S-box + rotate + XOR constant ... www-courses.cs.uiuc.edu/~cs397pgn/lectures/AES.pdf - Similar pages

[РРТ] William Stallings, Cryptography and Network Security 3/e

File Format: Microsoft Powerpoint 97 - View as HTML

... stronger & faster than Triple-DES. ... AES Round. AES Key Expansion. ... every 4th has S-box + rotate + XOR constant of previous before XOR together. ... security.ece.orst.edu/koc/ece478/ws/slides/ch05.ppt - Similar pages

[PS] The MARS Encryption Algorithm Carolynn Burwick c, Don Coppersmith ...

File Format: Adobe PostScript - View as Text

... Our C implementation of the key expansion procedure sets up ... As a basis for comparison,

a typical DES implementation is ... odd integer) into R and then rotate R by ... www.research.ibm.com/security/mars-short.ps - Similar pages

An Overview of the Hasty Pudding Cipher Rich Schroeppel & Hilarie by the operations that add, shift, and rotate, because the ... The cipher key controls

the key expansion table at the ... a "step" is similar to a DES "round") that ... www.cs.arizona.edu/~rcs/hpc/hpc-overview - 19k - Cached - Similar pages

IPDFI Microsoft PowerPoint - lect07.ppt

File Format: PDF/Adobe Acrobat - View as HTML

... Fall 2003/Lecture 7 21 Key Expansion RotWord([byte0, byte1, byte2 ... Speed: faster than **DES** in software. ... Every time more subkeys are needed, **rotate** left the key 25 ... www.cs.purdue.edu/homes/ninghui/courses/ Spring04/lectures/lect07.pdf - Similar pages

IPDFI Lecture 6: Two Fish on the Rijndael Menu Breaking Grades File ... File Format: PDF/Adobe Acrobat - View as HTML

... for S-boxes kept secret • Many good choices – **DES**: only one ... of key bytes: b (16, 24, or 32) • Key Expansion: - Produces array S ... n means rotate left by ... www.cs.virginia.edu/~evans/cs588/lectures/lecture6.pdf - Similar pages

IPDF1 Hardware Evaluation of the AES Finalists

File Format: PDF/Adobe Acrobat - View as HTML

... Twofish, Mars and RC6 are slower than Triple-DES. ... 4-bit input/output, logical and rotate shifts, and ... Decrypti on logic Output registers Key Expansion logic Su ... csrc.nist.gov/encryption/aes/round2/ conf3/papers/15-tichikawa.pdf - Similar pages

ΓΡΡΤ Testing in the Fourth Dimension

File Format: Microsoft Powerpoint 97 - View as HTML

... Stronger & faster than Triple-DES. ... CSE565: S. Upadhyaya. Lec 9.15. AES Key Expansion. ... every

4th has S-box + rotate + XOR constant of previous before XOR together. ... www.cse.buffalo.edu/faculty/shambhu/ cse56503/lectures/lec-09-aes.ppt - Similar pages

Goooooooogle >

Result Page:

1 2 3 4 5 6 7 8 9 10

Next

"key expansion" rotate DES

Google Search Search within results

Dissatisfied with your search results? Help us improve.

Google Home - Advertise with Us - Business Solutions - Services & Tools -Jobs, Press, & Help

©2004 Google



Advanced Search

Preferences

Language Tools Search Tips

ey (XOR OR "exclusive-or") (sul

Google Search

Web · Images · Groups · Directory · News

Searched the web for key (XOR OR "exclusive-or") (substitution OR "s-box") expansion (rotate OR rotation)

HandyTrac Key Control

All the Security you need at a price you can afford!

Sponsored Link

The Dogfish Page

www.handytrac.com

... transformation and is also performed, in combination with **substitution**, during **key**

expansion ... The Add Round Key transformation is performed by XOR'ing the ...

www.datacrime.org/ - 22k - Cached - Similar pages

BletchleyPark.net

... This operation consists of **substitution** boxes which specifies how each ... 192 or 256

bits and a complex **key expansion** process ... The **Xor**-ing of the sub-**key** before the ...

www.bletchleypark.net/crypt/aes.html - 20k - Cached - Similar pages

[PDF] William Stallings, Cryptography and Network Security 3/e File Format: PDF/Adobe Acrobat - View as HTML

... **XOR** constant of previous before **XOR** together • Designed ... step – with a different

key schedule • Works ... is unchanged when – swap byte **substitution** & shift ... www-courses.cs.uiuc.edu/~cs397pgn/lectures/AES.pdf - <u>Similar pages</u>

[PDF] AEES-Alex Ernst Encryption Standard

File Format: PDF/Adobe Acrobat - View as HTML

... 2. **Substitution** choice ... **S-box** S and it's inverse S -1 are applied in the law of ... bytes

of 8 in XOR-Key dwordS2 - second 4 bytes of 8 in XOR-Key dwordP2 - second ...

www.alex-encryption.de/DES_Cube_PRNG.pdf - Similar pages

грет William Stallings, Cryptography and Network Security 3/e

File Format: Microsoft Powerpoint 97 - View as HTML

... every 4th has S-box + rotate + XOR constant of previous before XOR together. ... with

a different **key** schedule. ... swap byte **substitution** & shift rows. ... security ece orst.edu/koc/ece478/ws/slides/ch05.ppt - <u>Similar pages</u>

From: pgut01@cs.auckland.ac.nz (Peter Gutmann) Newsgroups: sci. ...

... 2. Bitwise **exclusive OR**, denoted by ... random binary words determined by the user's secret

key K. Initialising ... ciphertext contents of Beale Cipher No.1 **XOR**'d with ... www.funet.fi/pub/crypt/cryptography/symmetric/ rc2/comments/gutman-960211 - 10k - Cached - Similar pages

[РРП] Secret Key Cryptography

Sponsored Links

Key Lock Boxes

Supra, Shurlok, & MMF key lockboxes Free ship on \$500. Qty. discounts http://www.kwiklocks.com/ Interest:

Secure FTP Server

Windows, 128-Bit SSL, S/key Low Cost, Easy Setup, Free Trial. www.globalscape.com Interest:

Key Cabinet - Big Sale

Secure key control-Heavy duty steel Up to 50% off on sale items www.a1-locksmith.com Interest:

Push Button Key Cabinets

New GE Supra Product 30,60,120 Key Enter Code goog10 for 10% Discount www.davstarsecurity.com Interest:

Key box

Over 55,000 items in stock Call Toll Free or Order Online www.instawares.com Interest:

Supra lockboxes

Combination Lockboxes free shipping Discount prices Supra Store-A-Key www.buyasafe.com Interest:

IIICICSI.

Key Lock Boxes (outdoor)

If you can find a lower advertised price, we'll beat it. Low as \$14.95 http://reboxes.com

Decade Substitution Boxes
Resistance, Capacitance, Inductance
Save 5% Online! - All Items
www.hmcelectronics.com

File Format: Microsoft Powerpoint 97 - View as HTML ... IDEA primitive operations. ® exclusive OR + addition mod 216 and x multiplication mod 216+1. ... XOR. Octet-Substitution (S-box) (see Figure 3-24). ... Key Expansion. ...

www.cs.odu.edu/~mukka/cs772s04/slides/chapter3.ppt - Similar pages

Interest: See your message here...

https://www.energy.com/style="color: blue;">https://www.energy.com/st

... 2. Bitwise exclusive OR, denoted by & amp; quot; ^& amp; quot ... binary words determined by the user's secret key K. Initialising the S-box RRC.2 ... www.mirrors.wiretapped.net/security/cryptography/ algorithms/rc2/comments/gutman-960211 - 11k - Cached -Similar pages

<a href="https://www.nead-subsets.com/sead-subsets-left-subsets-left-subsets-s ... register Long r; /* Data value R(i-1) */ Long k; /* Key K(i) */ { Long a, b, c; /* 32 bit S-box output, & amp, P output */ a = r^ k; /* A = R(i-1) XOR K(i ... www.mirrors.wiretapped.net/security/cryptography/ algorithms/loki/loki89.c - 13k - Cached - Similar pages [More results from www.mirrors.wiretapped.net]

[PS] The MARS Encryption Algorithm Carolynn Burwick c, Don Coppersmith ... File Format: Adobe PostScript - View as Text

... We denote by cA*da bitwise exclusive-or of the two words c ... We then multiply the second key word (constrained to contain ... Then we xor R into L, and also view the ... www.research.ibm.com/security/mars-short.ps - Similar pages

> Gooooooogle > 1 2 3 4 5 6 7 8 9 10 Next Result Page:

key (XOR OR "exclusive-or") (sul Google Search Search within results

Dissatisfied with your search results? Help us improve.

Google Home - Advertise with Us - Business Solutions - Services & Tools - Jobs, Press, & Help

©2004 Google

Size



HOME

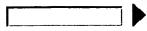
10

CONTACT US

hapter 7: Block Ciphers

PRICES

Search Our Site



Searched for "key expansion" and found 2 documents **New Search**

Document

Chapter 9: Hash Functions and Data Integrity

Advanced Search

- Information ▶ How it Works
- ▶ New Books
- ▶ How to Order
- **►** Editors
- ▶ Technical Support
- ▶ Export Title List

Search Results - 1 to 2

Search Results - 1 to 2 << Back 1 Next >>

<< Back 1 Next >>

Visit CRC Press Online!

Leading Publishers of Essential Information for the Professional and **Technical Communities** Worldwide!

CRC Press.

For Best Results

Use the latest versions of the software below. Click on the icons below to download for FREE.







Cryptography

Cryptography

Book Title Handbook of Applied

Handbook of Applied

Authors Alfred J. Menezes 0.5 MB Paul C. van Oorschot...

Alfred J. Menezes 0.5 MB Paul C. van Oorschot...

Certain names and logos on this page and others may constitute trademarks, servicemarks, or tradenames of CRC Press LLC. Copyright (c) 2000 CRC Press LLC-All rights reserved